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MEMBRANE-BOUND CYTOKINE COMPOSITIONS AND
METHODS OF MODULATING AN IMMUNE RESPONSE USING SAME

ABSTRACT

5 The present invention provides a cellular vaccine having a membrane-bound fusion protein that includes a non-antibody immunomodulatory molecule, ^{such as GM-CSF} operatively fused to a heterologous membrane attachment domain. Non-antibody immunomodulatory molecules useful in the invention include immunostimulatory and

10 immunosuppressive molecules such as cytokines. In one embodiment, the invention provides a cellular vaccine having a membrane-bound fusion protein that includes a non-antibody immunomodulatory molecule operatively fused to a heterologous membrane attachment domain and,

15 additionally, a disease-associated antigen or immunogenic epitope thereof. Further provided by the invention are methods of modulating an immune response against a disease-associated antigen by administering to an individual a cellular vaccine having a membrane-bound

20 fusion protein that includes a non-antibody immunomodulatory molecule operatively fused to a heterologous membrane attachment domain.

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